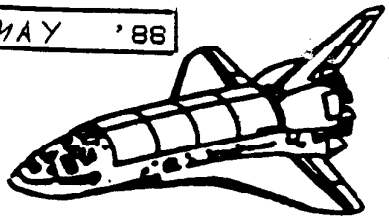
MAY '88



Pres.	Darrell Kankel	Ph.487-2361
V.P.	Tommy Thompson	Ph.946-6356
Sec'y.	John Owen	Ph.554-2844
Treas.	Phil VanNordstrand	326-1916

JOHNSON SPACE CENTER JSC

TI-99 Users Group

"RETURN TO FLIGHT"
-FALL '88-

1988 MEETING DATES: APR 19, MAY 17, JUNE 21, JULY 19, AUG 16, SEPT 20
OCT 18, NOV 15, DEC 20 (3rd Tuesday each month) ← NEW!

MEMBERSHIP RENEWAL

Send a check for $12 made out to P.C. Van Nordstrand to:

Phil Van Nordstrand
430 Shadow Creek Dr.
Seabrook, TX. 77586

NAME: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

HOME PHONE: _____ WORK PHONE: _____

This newsletter is a monthly publication of The Johnson Space Center TI 99/4A Users Group. The JUG meets at 7:30 on the 3rd Tuesday of each month at the Gilruth Recreation Center at NASA-JSC. Visitors are always welcome.

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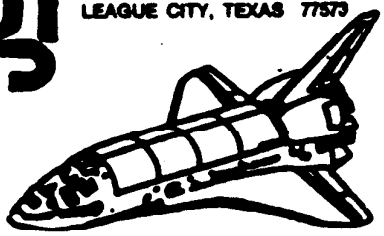
This newsletter and the articles contained herein do not necessarily represent the opinions of the group, the editor or any person other than the author.

JOHNSON SPACE CENTER JUG
TI-99 Users Group
JOHN OWEN
2321 CORYELL ST. 554-2844
LEAGUE CITY, TEXAS 77573



HOUSTON TX
PM
31 MAY
1988

MIAMI CY (J CLASBY) 516
RR 4 Box 156
WABASH, IN
46992
*

```
100 ! CONVERT TI-ARTIST INSTANCES
110 ! TO TI-WRITER FILES
120 ! from Chicago Times 4-30-87
130 ! Original by David Dhein
140 ! Enhanced by Paul Berg, Tric+ Software
150 ! Extended Basic - EPSON only
160 ! Modified by Lutz Winkler, 12-02-87
165 ! Will not append _I to converted file
166 ! Reduces conversion time depending on number of zeros in the instance
167 ! Average time saved: 15%
170 CALL CLEAR :: CALL SCREEN(1):: FOR COL=0 TO 12 :: CALL COLOR(COL,16,1):: NEXT COL
180 DISPLAY AT(1,4):"TI-ARTIST TO TI-WRITER": :"  CONVERSION PROGRAM"
190 DISPLAY AT(5,1):"!!!!!!!! EPSON VERSION !!!!!!!"
200 DISPLAY AT(7,1):"INSTANCE FILE NAME:"
210 DISPLAY AT(8,1):"DSK1."
220 ACCEPT AT(8,4)SIZE(-14):OLD$
230 DISPLAY AT(10,1):"NEW FILE NAME:"
240 DISPLAY AT(11,1):"DSK1."
250 ACCEPT AT(11,4)SIZE(-14):NEW$
260 A$="DSK"&OLD$ :: B$="DSK"&NEW$
270 DISPLAY AT(13,1):"CENTER OUTPUT? Y"
280 ACCEPT VALIDATE("YN")SIZE(-1)AT(13,16):C$
290 OPEN #1:A$,INPUT :: OPEN #2:B$
300 INPUT #1:I,Y :: IF I+Y>255 THEN DISPLAY AT(20,3):"This will take a while," :: DISPLAY AT(21,3):"be patient..."
310 PRINT #2:"..TL 92:10" ! Backslash used as line feed
320 PRINT #2:"..TL 61:27,65,8" :: PRINT #2:"..TL 62:27,65,12" :: PRINT #2:"=" ! Equal sign is 8/72, Greater Than is 1/6 (default) line spacing
330 N$="" :: FOR N=1 TO I :: N$=N$&CHR$(127-N):: NEXT N
340 FOR K=1 TO Y
350 FOR L=1 TO I
360 INPUT #1:C(7),C(6),C(5),C(4),C(3),C(2),C(1),C(0)
370 FOR I=7 TO 0 STEP -1
380 A=C(I):: IF A=0 THEN 402
390 FOR J=7 TO 0 STEP -1 :: IF 2^J>A THEN 400 :: A=A-2^J :: B(J)=B(J)+2^I
400 NEXT J :: GOTO 402
401 A$="@"
402 NEXT I
410 A$=STR$(B(0)):: B(0)=0
420 FOR I=1 TO 7 :: A$=STR$(B(I))&",&A$ :: B(I)=0 :: NEXT I
430 PRINT #2:"..TL "&SEG$(STR$(127-L),1,3)&":27,75,8,0,"&A$
440 NEXT L
450 IF C$="Y" THEN PRINT #2:"..CE"
460 PRINT #2:N$&"\"
470 NEXT K
480 FOR N=1 TO I :: N$="..TL " :: N1$=SEG$(STR$(127-N),1,3):: N$=N$&N1$&":"&N1$ :: PRINT #2:N$ :: NEXT N
490 PRINT #2:"..TL 92:92"
500 PRINT #2:"..TL 61:61"
510 PRINT #2:")"
520 PRINT #2:"..TL 62:62"
530 CLOSE #1 :: CLOSE #2
540 CALL CLEAR
550 END
```

FASTER CONVERSIONS

from TI-Artist to TI-Writer

The original version of this program (TI-Artist Instances to TI-Writer Conversion) appeared in the June 1987 issue of our newsletter. Basically, there is nothing wrong with it. But there were two things which bugged me. First, the file input routine. It automatically adds "_I" to the file it creates, though the new file is no longer compatible with TI-Artist. Second, the program is s--l--o--w.

Making the file input more flexible was no problem. I can now enter a proper instance file name suffixed with _I and generate a file with a name of my choice to which I append _T, indicating it is ready for TI-Writer. Attempting to speed things up was another matter. The heart of the program, the conversion routine, is very well and cleverly written. An instance file is nothing more than character definitions, except they are shown as decimals, not in hex. Converting these definitions to pin-firing patterns takes time. Ideally, it would be done with an assembly routine via CALL LINK, but until (and unless) somebody comes up with one, we are stuck with this program. I found only one place for a minor improvement. This shows in line 380 after A=C(I) "IF A=0 THEN 420" avoids going into the next loop (FOR J=7 TO 1 STEP -1). Since J always starts out being 7, any value of A (even zero) was checked to see if it was greater than 2^J (2x2x2x2x2x2x2). Exponentation requires a lot more time than a simple A=0, which is the only reason this modification results in a modest gain in performance.

Tests show that conversions with the modified program take about 15% less time. For example, an instance of 11x14 characters took 10:50 minutes to convert with the original and 9:20 with the modified program. The 15% figure is an average and conversions vary with the number of times a zero occurs in the instance file. If the instance is drawn black-on-white, there will be an improvement, if it is done white-on-black, don't expect much. Since an instance is saved in DIS/VAR 80 format, look at it with TI-Writer and if you see a lot of zeros, you can be sure it will convert a bit faster. By the way, on line 1 of the file there are two numbers. They show the width and length (in 8x8-pixel characters) of the instance. They are read by the program (I and Y in line 300) and set the limits for the K and L loops (lines 340 and 350).

While I was modifying the program, I decided to delete the printer selection, too. I have an Epson, so why waste time on one more key press and several lines of code. (Says he who also added a line (170) to set screen and text colors.) For those who do not own Epson-compatible printers: The transliterations for the characters which are used as printer commands are shown in lines 310 and 320. The backslash (ASCII 92) is used as a linefeed (ASCII 10), the = sign (ASCII 61) for 8/72 line spacing and the > sign (ASCII 62) to return to the default (1/6) line spacing. One more transliteration occurs near the end of line 430. It shows as :27,75,8,0 which is Epsonese for ESC K n n or "Turn single-density graphics mode on."

(Ed: Lutz Winkler)

AGENDA for our MAY MEETING: (TUESDAY MAY 17 at 7:30pm)

1. "32K on 16 BIT BUS" by John Owen / Al Well & Charles Smith. Handouts on how to make this mod to your console, including parts list. Discussion of pros and cons of two different approaches to switching from "fast to slow" modes. We plan to take a console apart and show you how to make this mod. BE THERE!!!
2. Demonstration of how to "command your printer" from within your TI-WRITER Editor by Phil Van N. and/or John Owen.
3. Demonstration of TI-Artist ("SPACE STATION" pictures) by Darell Kankell.
4. Sign up for progrqams/disks you want from a list of new programs.
5. Discussion and collection for JUG membership in the LA99ers. This should provide us access to probably the best disk library system around. We get their newsletter on an exchange basis but they are losing money on us unless we join as a member.

TI 99/4 HOUSTON DEALER

While at the Dallas Faire we discovered that there is a computer store in the Houston area that specializes in TI hardware, including many used TI-99/4 items. The business name is "U.S. Tech" and is run by Ken Espiou. He has a catalog of over 1000 items which he is working on. He is not very close to us, as he is located on Highway 6 (near Alief and Bellaire) (phone number 713-498-3141), but might be worth contacting for hard-to-get items that Mike Matula (M & S Computer Systems) doesn't carry. He specializes in TI products such as calculators and educational products and has a good technical understanding of the TI-99/4A. Ken is a student and is only available after 3 pm & Saturday. He does have a recorder.

NEW ITEMS

1. Toshiba 4Mb 3.5 In. Floppy Disk Drive (PD-210)
(Samples $320 - Apr.28 Electronics) Question: Will the new MYARC controller card handle this?
2. DIJIT Video Processor Card for TI-99/4A
(For RGB monitors, 80 Column, 512 colors, 192K Video RAM; $220)
See Apr. MICROpendium, Page 24.
3. TELCO -New Terminal Emulator (S/W): See review in May 1988 PUG newsletter. (Demonstrated at May HUG meeting).
4. FIRSTBASE -New super data base software for TI99/4A ($49.95) by Warren Agee & Clint Pulley. See writeup in May 1988 Spirit of 99 newsletter.
5. DISK UTILITIES -New super disk manager and sector editor program.
6. "PLUS" -New Funnelweb Companion by Jack Sughrue (M.U.N.C.H.). See writeup in May Computer Shopper. We have a copy of "FUNLPLUS" which has an earlier version of Funnelweb system. Has a banner program, personalized disk and calendar programs, box patterns, labels using computer graphics, etc. (DSSD preferred).
7. PROTO-BOARD application -Clock/Calendar writeup and schematic in the West Penn newsletters for May and June, 1988

DALLAS TI-99/4 FAIRE (APRIL 30, 1988)

John Owen and Phil Van Nordstrand attended the FAIRE and demonstrated the "UNITED 99/4 Data Base", (UNDB), at the 2:00 session. We now have two new groups (FLUG-Dallas, & BRAZOS VALLEY-Waco) participating in the "UNDB" project. We enjoyed meeting people we had only heard or read about (Barry Travers, Bud Mills, Richard Fleetwood (FLUG), James Crossman, (NET99), Jerry Keisler (Paris, TX), Roy Willis (FLUG), Frank Cross (Brazos Valley), Gary Taylor (PUG) and many others. Terrie Masters was there with the "great" LA99 Library. She is a REAL TI-99/4 enthusiast and a very hard worker. Houston Users Group was represented by Ken Espiou, Bob Seddon and Jim Uzell. TI-Lubbock was represented by Jeffrey Crump. Jeff assured us that TI support of the TI-99/4A will continue (parts, repairs, & software answers -excluding Assem. Language), but the 1-800-TI-CARES number will go away before too long. The most interesting event at the Faire to the two of us was the hardware session given by James Crossan. James and others in the Dallas area have working copies of almost all hardware that was invented for the 99/4 by the TI Research Laboratories (in Dallas) (i.e., TI-99/2, TI-99/8, FORTI Card, TI Gramulator, TI 80 Col. Board, Hex-bus (CC-40 peripherals)), and by 99/4 hackers throughout the world (i.e., 16K Super Carts, 32K on the 16-bit bus, Speed Reducer, Ram Disks, etc.). Most of the TI items ever sold were on display in the Vendor Area. Jim showed an EEPROM cartridge that he had built that can be loaded with any Cartridge program.

Most of the well-known vendors were there except for MYARC-we hope they were busy building our Hard/Floppy Disk Controller cards. Vendors included were RAVE, Compuserve, MICROpendium, Genial Computers, LA99ers, Great Lakes Software and more. Bud Mills had the 1Mb. RamDisk and the "32K on 16-bit bus" kit that speeds up the 99/4 by 50%. John Owen bought one of the kits and is now getting to be an expert on the various approaches. Mike Ballman came up with the idea and John Guion of the Dallas TI Home Computer Group came up with a way to switch from fast to slow (normal). One method lets you switch back to your PEB 32K Card in order to get back to the normal speed for TI Speech and some games. The other newer approach lets you switch to the slower speed without needing your old PEB card. Then you can sell your PEB card-if you never expect to switch consoles to one without the mod!

If you ever want to know the whole story about the birth, development and death of the TI-99/4A, contact the Dallas Forest Lane Users Group (FLUG) and/or the North-East Texas Users Group. They have the history, the hardware and the hardware experts. Many of their past and present members actually did the TI-99/4 development work. The JSC Users Group has a complete set of the NET99er newsletters (since 1982). They have documented some great work for the TI community. I wish we had the FLUG (Dallas) newsletters as well.

John Owen bought 3 disks of TI Artist spaceship drawings that will be available for demonstration. These are great works of art.

TEXAS TI FAIRE

SCHEDULE OF EVENTS FOR SATURDAY, APRIL 30TH, 1988

TE	VENDOR AREA_BALLROOM	SPEAKER AREA_TERRACE	CONFERENCE ROOM_DEMOS	CONFERENCE ROOM_SEMINARS
7:00 AM	open for set-up	set up pa systems	set up game systems	set up demo system/modem
8:00	finish set up	arrange seating/setup camera	finish set up	arrange seating
9:30	vendor/worker meeting			
9:00 am	open doors to public	FUNNELWEB 4.0-USING IT TO ITS FULLEST - by Marty McCain	GAME ARCADE- see who can get the best scores- set up age groups, have prizes...by AL HERRING	Programming In BASIC- By Jerry Keisler-Paris UG
10:00 am		TELECOMMUNICATIONS ROUNDUP- GENIE,DELPHI,SOURCE, STARTEXT		PART TWO- Programming in Basic
		10:10 AM		
11:00 am		DISK MANAGEMENT SYSTEMS-hard-ware/software-By Rich Fleetwood	GAME DEMOS- NEW SOFTWARE ***** NEED HELP *****	STARTEXT DATABASE SYSTEM HOMEBANKING NETWORK
12:00 pm		*** TEXAS INSTRUMENTS *** JEFFREY CRUMP-TI	TI WRITER TUTORIALS BY MARTY MCCAIN	GENIE- DATABASE SYSTEM SCOTT DARLING
1:00 pm		BUD MILLS SERVICES-- THE HORIZON RAMDISK AND OTHER PROJECTS - BUD MILLS	SAM WELLER- FORTI MUSIC CARD DEMONSTRATION	(FREE SPACE!) **********
2:00 pm		2:30 PM	(FREE SPACE!) "UNDB" ********** JUG - DEMO	TI GRAPHICS DRAWING PROGRAMS TI ARTIST, RLE, CSGD,
3:00 pm		DATABIOTICS GRANDRAM - BY SCOTT DARLING - GENIE	HARDWARE PROJECTS- BY JAMES CROSSAN-NET99ERS	AND ALL COMPANIONS- BY STEVE BARACKMAN - PARIS UG
		3:30PM		
4:00 pm	4:40PM-SHUT DOWN FOR DINNER PREPARATION	PANEL DISCUSSION-THE FUTURE OF THE TI COMMUNITY-W/BARRY TRAVER,TERRY MASTERS, MORE		(FREE SPACE !) **********
5:00 pm			CLOSE DOWN THE 1ST TEXAS TI FAIRE AT 5 PM	
6:00 pm			"UNITED 99/4 DATA BASE"	
7:00 pm			DEMONSTRATION by JOHN OWEN & Phil Van Nordstrand (JOHNSON SPACE CENTER USERS GROUP)	
8:00 pm	SPECIAL DINNER BANQUET W/ BARRY TRAVER-SPEAKER			

HOW TO GENERATE "PRINT CODES" FOR TI-WRITER "EDITOR"

By JOHN R. OWEN

The enclosed article from the SFV 99ers, "TI-WRITER PRINTER CODES" (JUL.'86), tells how to generate almost any print codes for the TI-WRITER EDITOR and FORMATTER, at least for Epson MX-80 and Gemini 10X/15X printers. I seldom need more than 7 of these codes as listed in the following condensed table.

FUNCTION	CTRL	FCTN	CTRL	KEY	CTRL	SHIFT	CTRL
1. EMPHASIZED "ON":	U	R	U	E			
2. DOUBLE -STRIKE "ON":	U	R	U	G			
3. CONDENSED "ON" (17CPI)					U	O	U
4. DOUBLE-WIDTH "ON":	U	R	U	W	U	A	U
5. ITALICS "ON":	U	R	U	4			
6. UNDERLINE "ON":	U	R	U	-	U	A	U
7. RESET (Cancels codes):	U	R	U	@			

NOTES: #7 WILL NOT WORK WITH "FORMATTER"; #1 & #3 CANNOT BE COMBINED.

PRINT CODES TABLE

To try the above, get into "Editor" mode and:

a). HIT: CTRL U, FCTN R, CTRL U, E, [ENTER]
b). TYPE IN: "This is a test of "EMPHASIZED PRINT". [ENTER]
c). HIT: CTRL U, FCTN R, CTRL U, @ [ENTER]
d). TYPE IN: "This is a test of "RESET" [ENTER]

The two print codes will be displayed as: !bE and b@ . They will not print!

Send the above to the printer. Line (b) will be printed in "EMPHASIZED" print while Line (d) will be "normal" print. Note that CTRL U puts the editor into the "Special Character Mode" as shown by the different ("_") cursor. Make sure you are out of this mode by typing CTRL U again before entering the letters shown in the Key column or before typing any text. Repeat steps (a), (b), (c) and (d) for Functions 2,3,4,5,6 (&7) from the Table. Note that instead of using #7 (Master Reset) you can cycle the printer OFF/ON to cancel all printer codes. You now can use the more useful printer codes but consult the SFV Table for other codes you may need. Always turn codes off before inserting new codes in your text.
Now try combinations of the above. Just "HIT" the codes in sequence prior to typing in your text.

a). #1 & #2 (Emphasized/Double-strike):
    Ex: CTRL U,FCTN R, CTRL U, E, CTRL U, FCTN R, CTRL U, G
b). #3 & #2 (Condensed/Double-strike);
c). #5 & #1 & #2 (Italics/Emphasized/Double-strike);
d). #4 & #1 & #2 (Double-width/Emphasized/Double-strike);
e). #3 & #4 & #2 (Condensed/Double-width/Double-strike);

If you want to know how these commands work, study the TI-WRITER Manual, Pages 98, 145, and 146 along with the codes in your printer manual. The above codes also work for the TI-WRITER Formatter mode except for #7, Master Reset. Also there are some differences in applying the Double Strike (OVERSTRIKE) and Underline (UNDERSCORE) codes.

You can put the above "PRINT CODES TABLE" on your FNLWEB/4.0 disk (revised to 40 Col format) so as to be able to call it up and look at it while entering your text. This way the "PRINT CODES" are always at your fingertips. You do this by using the "V(IEW) feature of the "Show Directory" (SD) function of the Editor. (Don't forget to use CTRL C and then O(ld) to get back to your text file.) A hardcopy of the table taped to your console will do the same thing but is not very sophisticated and will not impress your non-TI 99/4 computer friends as much!

FUNCTION	CTRL	FCTN	CTRL	KEY	CTRL	SHIFT	CTRL
1. EMPHASIZED "ON":	U	R	U	E			
2. DOUBLE -STRIKE "ON":	U	R	U	G			
3. CONDENSED "ON" (17CPI):					U	O	U
4. DOUBLE-WIDTH "ON":	U	R	U	W	U	A	U
5. ITALICS "ON":	U	R	U	4			
6. UNDERLINE "ON":	U	R	U	-	U	A	U
7. RESET (Cancels codes):	U	R	U	@			

NOTES: #7 WON'T WORK WITH "FORMATTER"
#1 & #3 CANNOT BE COMBINED.

PRINT CODES TABLE (40 COL)

UNDB STATUS

We received a disk of INPUT from Doug Gootee (Jax Cy Mo.) and a nice letter from our European Office (Ennio Medici-Italy). Ennio wants us to let him know which newsletters to INPUT. John Willforth called to let us know that West Penn Pa. is almost ready to send in their INPUT. Got a copy of Bill Gaskills work on indexing MICROpendium. Great Work!!! Bill used a DV 80 format. Finally got Ken Sheets Fla. address and will send him a STARTER kit for evaluation. Ken is the father of the UNDB idea. We hope he can help us with whatever he was able to get Indexed during the past few years.

There are at least 20 other User Groups encoding their newsletters for 1987. We should have a FLOOD of INPUTS any day!!!

Let us know if your group wants a STARTER kit ($1.00) and if we can help any of the UNDB-SIG members (those who have STARTER kits) in learning about PR-BASE or getting your INPUT in for integration into the MASTER UNITED 99/4 BATA BASE.

PHIL & JOHN

TI-WRITER PRINTER CODES
by Alice Cassidy [SFV 99ers July '86]

One evening as I was bragging that I had complete control of my printer by using the translitrate command, Ken Johnson (our fine editor), asked me why I went to all that trouble? He told me about page 146.

Have you read and understood page 146 of the TI WRITER manual? If you answered Y E S then skip this article. If you answered no I don't or no I don't then read on. If the only reason that you use the Formatter is for printer codes then read on. Look at page 146 to get an idea what it looks like. Go to page 98 and read that. If you still don't understand what it says don't worry. Below and on the next page are charts that show what keys to push for different printer commands. If you would like to print your letter in Continuous Expanded (Double-width mode) but don't want to leave TI WRITER to change the printer, just do the following on the top line of your letter.

PRESS: CTRL U, FCTN R, CTRL U, W, CTRL U, SHIFT A, CTRL U.

Both the Epson and the Gemini would use the above. The codes are CHR$(27);"W1" or CHR$(27)&CHR$(87)&CHR$(1). At the end of the letter you would turn the Double-width mode (Continuous Expanded) off.

PRESS: CTRL U, FCTN R, CTRL U, W, CTRL U, SHIFT 2, CTRL U.

All codes can be embedded in the body of your letter but be sure that you take into account the space(s) used by the codes.

RX 80 EPSON PRINTER CODES FOR TI-WRITER

SCREEN DISPLAY	DISCRIPTION	CTRL	FCTN	CTRL	KEY	CTRL	SHIFT	CTRL
'␣	Condensed On					U	0	U
'␣	Condensed Off					U	R	U
'␣G	Double Strike On	U	R	U	G			
'␣H	Double Strike Off	U	R	U	H			
'␣M	Elite On	U	R	U	M			
'␣P	Elite Off	U	R	U	P			
'␣E	Emphasized On	U	R	U	E			
'␣F	Emphasized Off	U	R	U	F			
'␣	Expanded One Line					U	N	U
'␣W-₁	Expanded On	U	R	U	W	U	A	U
'␣W-₀	Expanded Off	U	R	U	W	U	2	U
'␣s-₁	Half Speed Mode	U	R	U	s	U	A	U
'␣4	Italics On	U	R	U	4			
'␣5	Italics Off	U	R	U	5			
'␣@	Master Reset	U	R	U	@			
'␣s-₀	Normal Speed Mode	U	R	U	s	U	2	U
'␣T	Script Mode Off	U	R	U	T			
'␣S-₁	Subscript On	U	R	U	S	U	A	U
'␣S-₀	Superscript On	U	R	U	S	U	2	U
'␣--₁	Underline On	U	R	U	-	U	A	U
'␣--₀	Underline Off	U	R	U	-	U	2	U
'␣2	1/6" Line Spacing	U	R	U	2			
'␣0	1/8" Line Spacing	U	R	U	0			
'␣3	7/72" Line Spacing	U	R	U	1			
'␣A-₀	5/72" Line Spacing	U	R	U	A	U	E	U

GEMINI-10X PRINTER CODES FOR TI-WRITER

SCREEN DISPLAY	DISCRIPTION	CTRL	FCTN	CTRL	KEY	CTRL	SHIFT	CTRL
'␣B-₀	Condensed On	U	R	U	B	U	C	U
'␣B-₁	Condensed Off	U	R	U	B	U	A	U
'␣G	Double Strike On	U	R	U	G			
'␣H	Double Strike Off	U	R	U	H			
'␣B-₀	Elite On	U	R	U	B	U	B	U
'␣B-₁	Elite Off	U	R	U	B	U	A	U
'␣E	Emphasized On	U	R	U	E			
'␣F	Emphasized Off	U	R	U	F			
'␣	Expanded One Line					U	N	U
'␣W-₁	Expanded On	U	R	U	W	U	A	U
'␣W-₀	Expanded Off	U	R	U	W	U	2	U
'␣4	Italics On	U	R	U	4			
'␣5	Italics Off	U	R	U	5			
'␣@	Master Reset	U	R	U	@			
'␣T	Script Mode Off	U	R	U	T			
'␣S-₁	Subscript On	U	R	U	S	U	A	U
'␣S-₀	Superscript On	U	R	U	S	U	2	U
'␣--₁	Underline On	U	R	U	-	U	A	U
'␣--₀	Underline Off	U	R	U	-	U	2	U
'␣2	1/6" Line Spacing	U	R	U	2			
'␣0	1/8" Line Spacing	U	R	U	0			
'␣3	7/72" Line Spacing	U	R	U	1			
'␣A-₀	5/72" Line Spacing	U	R	U	A	U	E	U

EXAMPLE CODE:

In order to find the code for 5/72" Line Spacing look in your printer manual for the Line Feed Controls. The RX 80 Epson and the Gemini-10X show this code as ESC "A" n or CHR$(27);"A";CHR$(n) or CHR$(27)&CHR$(65)&CHR$(n), where n is as n/72 for the CHR$(n). On page 98 we are told to press CTRL U to enter the Special Character Mode. Now go to page 146 and look for the ascii code for escape which is ascii code 27. In looking across the page it shows that the key press of FCTN R is the same as CHR$(27). So we now know that we need to press CTRL U FCTN R CTRL U, to send CHR$(27) to our printer. Next we need to tell the printer what to do. We do this by pressing the key A, which is the paper feed command for n/72 inch spacing. Next we have to tell the printer what the value of n is. So back to page 146. We know that we want to move the paper 5/72 inch so we go down the ascii code column untill we come to the 5. In the press key column we are told to press SHIFT E. We now have the entire code necessary to tell the printer to set the line feed at 5/72" line spacing. Be sure to remember that you must press CTRL U before and after each key press from the Special Character Mode (page 146).

If you have trouble understanding any of the above feel free to call me and/or come to the August meeting of the TI Writer SIG. Call me to find out where and when. We do not meet on any set date, just when ever we can all get together. All members are welcome to attend. Come share your knowledge with us and we will share our knowledge with you.

P.S. This entire article was printed using the TEXT EDITOR and in some places I used 17 printer codes to print the Screen Display Column.

"SFV" TABLE

NEW!!

FIRSTBASE

Available 2nd Quarter 1988

A major advance in 99/4A databse technology:

- IBM style query commands
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We added a MACRO feature so you can store frequently used commands on disk for quick recall.

Specifications:
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-Search on multiple fields using AND and OR, or on keywords
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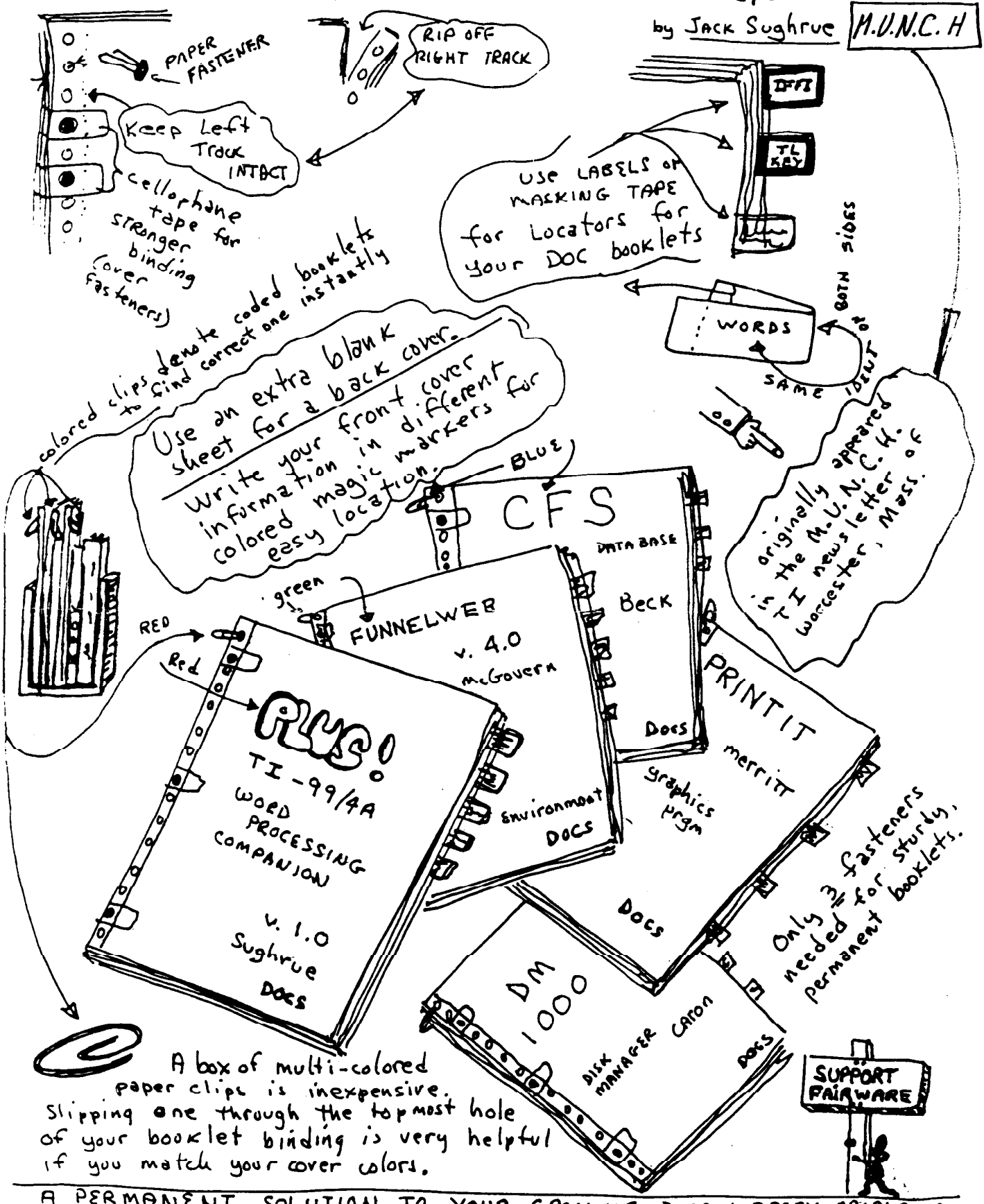
Firstbase written by Warren Agee. c99 language by Clint Pulley. IBM is a registered trademark of IBM Corp.

BUILT-IN BOOKLETS with Tractor-Feed Paper

by Jack Sughrue — M.U.N.C.H



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